

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
24 November 2005 (24.11.2005)

PCT

(10) International Publication Number  
**WO 2005/111109 A1**

(51) International Patent Classification<sup>7</sup>: **C08G 18/20**,  
18/18, 18/76, 18/50, 18/48

(74) Agent: **ULMER, Duane, C.**; The Dow Chemical Com-  
pany, Intellectual Property, P.O. Box 1967, Midland, MI  
48641-1967 (US).

(21) International Application Number:  
PCT/US2005/014555

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,  
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,  
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,  
ZA, ZM, ZW.

(22) International Filing Date: 27 April 2005 (27.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/567,351 30 April 2004 (30.04.2004) US

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **DOW  
GLOBAL TECHNOLOGIES INC.** [US/US]; Washing-  
ton Street, 1790 Building, Midland, MI 48674 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **PRANGE, Robbyn**  
[US/US]; 2907 Marble Falls Dr., Pearland, TX 77584 (US).  
**GODOY, Jose** [CH/CH]; 38, Boulevard de St. Georges,  
CH-1205 Geneva (CH). **CASATI, Francois, M.** [FR/CH];  
Etzelstrasse 25, CH-8808 Pfaffikon (CH). **DAWE, Robert,  
D.** [CA/CA]; 1741 Notre Dame Place, Sarnia, ON N7S 3S6  
(CA).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: CO-CATALYSIS OF AUTOCATALYTIC POLYOLS FOR LOW DENSITY POLYURETHANE FOAMS WITH IM-  
PROVED AGING CHARACTERISTICS

(57) Abstract: The present invention pertains to the co-catalysis of autocatalytic amine-based polyols with acid blocked, gelling,  
amine catalysts, and to the use of this catalyst combination in the production of low density polyurethane foams having improved  
aging characteristics and reduced VOC's (Volatile Organic Compounds) emissions.

WO 2005/111109 A1